

## Claims

What is claimed is:

1. A disc drive comprising:

- 10        a housing having a first component;  
            an actuator having a wall defining a cavity; and  
            a pivot in the cavity, the pivot comprising:  
                a first member coupled to the wall, the first member having at  
                least one external surface;  
15        a second member mounted to the first housing component; and  
                at least two leaves, each leaf joining one of the external surfaces  
                to the second member, wherein the leaves are  
                transversely disposed at an angle to one another such that  
                the actuator is pivotable with respect to the housing about  
20        an axis.

2. The disc drive of claim 1 in which the cavity further comprises:

- 25        two end walls defining a recess in slidable engagement with the second  
                member, the two end walls serving to limit rotation of the  
                actuator by coming into abutment with the second member.

3. The disc drive of claim 1 in which the cavity further comprises:

- a first recess shaped to locate the first member.

- 30        4. The disc drive of claim 1 further comprising:

5        a pair of washers secured to each one of the leaves, the washers of each pair being spaced apart by substantially a same distance.

5. The disc drive of claim 1 in which the pivot has a center of rotation generally coincident with a center of mass of the actuator.

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6. The disc drive of claim 5 in which each of the external surfaces is inclined towards the center of rotation.

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7. The disc drive of claim 1, the housing further comprising:

a second component, the second member being coupled to the second housing component.

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8. An actuator configured for rotational movement about an axis, comprising:

an actuator body having a wall defining a cavity; and

a pivot in the cavity, the pivot comprising:

a first member coupled to the wall, the first member having at least one external surface;

a second member configured to be mounted to a first disc drive housing component; and

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at least two leaves, each leaf joining one of the external surfaces

to the second member, wherein the leaves are

transversely disposed at an angle to one another such that the actuator is configured to be pivotable with respect to the disc drive housing about the axis.

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9. The actuator of claim 8 in which the cavity further comprises:

- 5       two end walls defining a recess in slidable engagement with the second member, the two end walls serving to limit rotation of the actuator by coming into abutment with the second member.
- 10      10. The actuator of claim 8 in which the cavity further comprises:  
                a first recess shaped to locate the first member.
- 15      11. The actuator of claim 8 further comprising:  
                two washers secured to each one of the leaves, the two washers being spaced apart by a same distance for all the leaves.
- 20      12. The actuator of claim 8 in which the pivot includes a center of rotation generally coincident with a center of mass of the actuator.
- 25      13. The actuator of claim 12 in which each of the external surfaces is inclined towards the center of rotation.
- 30      14. The actuator of claim 8 in which the second member is configured to be mounted to a second disc drive housing component.
- 25      15. A disc drive comprising:  
                a base;  
                an actuator configured for rotation relative to the disc drive housing component about an axis of rotation; and  
                means for pivotably coupling the actuator to the disc drive housing component.

- 5     16. The disc drive of claim 15 in which the actuator further comprises:  
          a cavity, the coupling means being disposed substantially within the  
          cavity.
- 10    17. The disc drive of claim 15, in which the coupling means includes a center  
          of rotation generally coincidental with a center of mass of the actuator.
18. The disc drive of claim 15 in which the coupling means comprises:  
          a flexible leaf.
- 15    19. The disc drive of claim 15 in which the coupling means comprises:  
          a mounting element fixed to the base.
20. The disc drive of claim 15 in which the coupling means comprises:  
          a mounting element fixed to the actuator within the cavity.